We seek to appoint two scientifically productive post-doctoral scientists to undertake research in the areas of space plasma physics, with particular emphasis on auroral physics and the magnetospheric substorm. These projects are expected to utilise state-of-the-art data collected from the ESA Cluster auroral acceleration region campaigns as well as data from the NASA THEMIS, Van Allen Probes and MMS missions.

The applicants will be expected and encouraged to participate in wider group scientific activities including preparations for future space plasma research missions. Both posts are available from 1st January 2017, through to the end of March 2019 in the first instance, with a possible extension subject to funding availability through the MSSL Consolidated Grant.

MSSL is the UK’s largest university based space science research institution and is involved in many leading space research missions (https://www.ucl.ac.uk/mssl/space-plasma-physics).

The Department of Space and Climate Physics is currently applying for an Athena SWAN Bronze Award, which recognises and celebrates good employment practices for women working in higher education and research. UCL has a Silver Athena SWAN award from the Equality Challenge Unit (ECU), and a Bronze award under ECU’s new Race Equality Charter for higher education; UCL is the only university to have both.

To apply for this post please go to: http://www.ucl.ac.uk/hr/jobs/ and search on 1600919.
2 Post-doctoral Research Associates for Auroral Space Plasma Physics

UNIVERSITY COLLEGE LONDON
Space and Climate Physics
(Mullard Space Science Laboratory)

Grade: Grade 7 (£31,076 - £38,183 per annum)
Reports to Prof. A. N. Fazakerley/ Dr I. J. Rae

Summary of Job Function
The post holder will conduct original research within the field of space plasma and/or magnetospheric science with particular emphasis on auroral acceleration processes.

Main Duties and Responsibilities
- Undertake original research in the field of auroral acceleration and substorm science towards the long-term goal of understanding auroral particle acceleration and magnetotail processes
- Communicate research through the publication of peer-reviewed journal articles and participation at relevant conferences and workshops.
- Engage constructively with national and international collaborators to further the scientific goals of the projects and explore new scientific opportunities
- Support the inception, scientific planning and delivery of new and up-coming mission concepts and scientific proposals.

Special working conditions
The postholder will be encouraged to undertake domestic and international travel in support of the research programme.

Other conditions
The post holder will be required to actively follow UCL policies including ‘Equal Opportunities’ and ‘Athena SWAN’, attend staff meetings and training as required, maintain an awareness of Fire and Health & Safety Regulations, carry out any other duties as are within the scope, spirit and purpose of the job, the title of the job and the grading as requested by the line manager or Head of Department. This job description reflects the present requirements of the post. As duties and responsibilities change and develop the job description will be reviewed and be subject to amendment in consultation with the post-holder.
Person Specification

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<thead>
<tr>
<th>Criteria</th>
<th>Essential</th>
<th>Desirable</th>
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<tr>
<td><strong>Skills Required</strong></td>
<td>• Ability to manage time and work to strict deadlines</td>
<td>• Expertise in processing of large space physics datasets</td>
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<td>• Ability to communicate scientific ideas effectively in person and on paper</td>
<td>• Science communication and public outreach</td>
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<td>• Evidence of expertise in the analysis of observational space physics data</td>
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<td><strong>Qualifications</strong></td>
<td>• Hold, or expect to hold, a PhD in Space Plasma Physics</td>
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<td><strong>Knowledge</strong></td>
<td>• Expertise and scholarship in space plasmas and/or magnetospheric physics or a closely-related subject.</td>
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<td>• Expertise in scientific programming, such as IDL, Matlab etc.</td>
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<tr>
<td><strong>Relevant Experience</strong></td>
<td>• Research experience in space plasmas and/or magnetospheric physics or a closely-related subject.</td>
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<td><strong>Aptitude</strong></td>
<td>• Ability to work collaboratively</td>
<td>• Interest in space instrumentation</td>
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<tr>
<td><strong>Other</strong></td>
<td>• Motivated to work independently</td>
<td>• Ability to attend national/international conferences, meetings and workshops</td>
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Further Particulars

Duration of Employment

Both appointments are available until the end of March 2019 in the first instance, with the potential for renewal under the MSSL Consolidated Grant

Starting Date

Both posts are available 1st January 2017, with negotiable start dates.